

# ABSTRACT OF THE DISCLOSURE

The present invention provides a 3D camera system and method for generating a 3D picture from real 3D input pictures. The system includes one or more cameras, a robotic or manually driven moving platform on which the camera or cameras are

5 adjustably mounted. The system is moved on a fan-shaped grating sheet in a format, such as curved or linear format, etc., to produce accurate trigger signals for camera exposure at precise intervals, i.e. pictures of an object are taken at predetermined locations at precise intervals. Alternatively, an optical encoder and programmable divider can be used to trigger the cameras at programmable precise intervals. Also, a

10 stepper or servo motor that moves the camera platform can be used to move the cameras to precise locations.